UNITED STATES SIGNAL SERVICE

MONTHLY WEATHER REVIEW.

Vol. XIX.

WASHINGTON CITY, APRIL, 1891.

No. 4.

0 INTRODUCTION.

This REVIEW is based on reports for April, 1891, from vice;" monthly reports from the local weather services of Ala-2.372 regular and voluntary observers. These reports are clas- bama, Arkansas, Colorado, Illinois, Indiana, Iowa Weather and sified as follows: 171 reports from Signal Service stations; 118 Crop Service, Kansas, Kentucky, Louisiana, Michigan, Minnereports from United States Army post surgeons; 1,524 monthly reports from state weather service and voluntary observers; 33 reports from Canadian stations; 182 reports through the Cen-kota, Ohio, Oregon, Pennsylvania, South Carolina, Tennessee, tral Pacific Railway Company; 344 marine reports through the Texas, and Wisconsin, and international simultaneous observaco-operation of the Hydrographic Office, Navy Department; tions. Trustworthy newspaper extracts and special reports marine reports through the "New York Herald Weather Ser-have also been used.

sota, Mississippi, Missouri, Nebraska, Nevada, New England, New Jersey, New York, North Carolina, North and South Da-

(CHARACTERISTICS OF THE WEATHER FOR APRIL, 1891.

The month was warmer than usual, except along the Pacific New Orleans and Grand Coteau, La., Fort Stanton, N. Mex., coast, and from the middle Pacific coast east-southeast over El Paso, Tex., and Keeler, Cal., it was the least ever reported Florida. At Boston and Newburyport, Mass., in the Red River of the North Valley, and at Wellington, Kans., the mean temperature was the highest, and at Key West, Fla., and Grand Coteau, La., it was the lowest ever reported for April. The highest temperature reported by a regular station of the Signal Service was 102°, at Yuma, Ariz., and by a voluntary observer, 112°, at Volcano Springs, Cal. At stations in the Red River of the North valleys, and at Fort Stanton, N. Mex., and Port Angeles, Wash., the maximum temperature was as high or higher than previously reported for April. The lowest temperature reported by a regular station of the Signal Service was 6°, at Saint Vincent, Minn., Fort Washakie, Wyo., and Denver, Colo., and by a voluntary observer, —35°, at Breckenridge, Colo. At Charlotte, N. C., Jacksonville, Key West, and Pensacola, Fla., Mobile, Ala., Palestine, Tex., Fort Smith, Ark., Montrose, Colo., San Francisco, Cal., and Port Angeles, over Hansford, Tex., killing 2 persons and damaging property to the value of about \$25,000; 2 persons were also reported previously reported for April. Over the Florida Peninsula the killed at Claude, Tex. 16th, a man killed by lightning near coldest weather ever known for the season prevailed on the 7th. Killing frost injured fruit and tender vegetation in the ton, N. C. 17th, remarkably heavy rainfall at Gallinas, Tex.; Gulf and south Atlantic states, and in Florida as far south as a boy killed by lightning at Trenton, Mo.; a destructive wind Lee county and Jupiter Inlet, from the 3d to 7th. Killing and hail storm at Marion, Ind.; 2 barns struck by lightning at frost occurred in east Maryland on the 21st and on the New Jersey coast on the 26th.

Mountain and plateau regions, and on the Pacific coast, except in west Washington and at San Francisco, Cal.; elsewhere house and trees struck by lightning at Crossville, Tenn. 19th, the precipitation was generally in excess of the April average. The greatest excess in precipitation occurred in extreme northwest Washington, where it exceeded 4.00 inches, and the most severe storms in Camp Co. and at Del Rio, Tex.; damage by marked deficiency was noted at Hatteras, N. C., where it was hail at Lawrenceburgh, Tenn. 21st, 1 man and 2 horses killed 4.20 inches, and from the lower Ohio valley southward to the by lightning in Knox Co., Tenn. 23d, a man reported killed middle Gulf coast, where it was more than 2.00 inches. At by lightning at Norwich, Conn. 30th, storm caused damage stations on the Washington coast and at Palestine, Tex., and at Tiffin, Ohio; a man reported killed by lightning near Stock-Lawrence, Kans., the monthly precipitation was the heaviest, well, Ind. and at Wellsborough, Pa., Cleveland, Ohio, Nashville, Tenn.,

for April. Monthly snowfall to exceed 10.0 inches was reported in the interior of New England, northeast and southeast New York, at mountain stations in south-central Pennsylvania and extreme west Virginia, in the mountains of Colorado, in central and west-central Nevada, along the line of the Central Pacific Railway crossing the summit of the Sierra Nevada Mountains in California, and at Marquette, Mich.

The severest general storm of the month prevailed along Ohio Valley and Tennessee, the Lake region, the Missouri and the middle Atlantic and New England coasts on the 2d and 3d, causing damage to shipping and seaside property. structive local storms were reported as follows: 8th, at Garza, Tex., buildings damaged to the extent of about \$500; near Columbia, Mo., a man was killed by lightning. 9th, damage by hail at Springfield, Mo.; buildings struck by lightning at Monticello, Ill., and Milwaukee, Wis. 11th, in York Co., Pa., and Carroll Co., Md. 12th, damage in Cooke and Grayson counties, Tex., by hail, wind, and rain. 15th, tornado passed Savannah, Ga., and a man killed by lightning near Washing-Olney, Ill.; 2 buildings struck by lightning at Tarpon Springs. Fla. 18th, a barn struck by lightning near Dyberry, Pa.; a The precipitation was generally deficient east of the Misman reported killed by lightning near Salladasburgh, Pa.; sissippi River and south of the Lake region, over the Rocky damage by lightning in Harford and Baltimore counties, Md.; 5 houses and 2 horses struck by lightning at Orange, Mass.;

The lower Mississippi river remained above the danger-line